United States Patent and Trademark Office

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NOTICE OF ALLOWANCE AND FEE(S) DUE

23413

7590

10/06/2003

10/00/2003

CANTOR COLBURN, LLP 55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 EXAMINER
MULVANEY, ELIZABETH EVANS

ART UNIT

PAPER NUMBER

1774

DATE MAILED: 10/06/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/024,349	12/18/2001	Grant Hay	120644-1	4828

TITLE OF INVENTION: RADIAL TILT REDUCED MEDIA

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	01/06/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

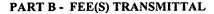
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u>				
INSTRUCTIONS: This form appropriate. All further corrected be maintenance fee notifications	elow or directed otherwise	smitting the ISSUE Patent, advance order in Block 1, by (a)	FEE and PUI lers and notifica specifying a ne	BLICATION FEE (if requation of maintenance fees vew correspondence address;	ired). Blocks I through 4 s vill be mailed to the current and/or (b) indicating a sep	should be completed where correspondence address as arate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)			Fee(s) Transmittal Th	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must			
23413 759	0 10/06/2003			have its own certificate	e of mailing or transmission.	cht of format drawing, mas-	
CANTOR COLBURN, LLP 55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002			I hereby certify that the States Postal Service vaddressed to the Mai	rtificate of Mailing or Tran his Fee(s) Transmittal is bein with sufficient postage for fu I Stop ISSUE FEE address TO, on the date indicated be	ig deposited with the United rst class mail in an envelope above, or being facsimile		
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	F	IRST NAMED IN	VENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/024,349	12/18/2001		Grant Ha	ay	120644-1	4828	
TITLE OF INVENTION: RA	DIAL TILT REDUCED M	IEDIA					
APPLN. TYPE	SMALL ENTITY	ISSUE FE	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1330	,	\$300	\$1630	01/06/2004	
EXAMI	NER	ART UNI	т	CLASS-SUBCLASS	1		
MULVANEY, ELIZ	ZABETH EVANS	1774		428-064100			
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			names of up agents OR, a firm (having agent) and the	For printing on the patent front page, list (1) the mes of up to 3 registered patent attorneys or tents OR, alternatively, (2) the name of a single m (having as a member a registered attorney or ent) and the names of up to 2 registered patent torneys or agents. If no name is listed, no name ill be printed.			
3. ASSIGNEE NAME AND PLEASE NOTE: Unless a been previously submitted (A) NAME OF ASSIGNE	an assignee is identified belt to the USPTO or is being s	low, no assignee da submitted under sep	ata will appear of parate cover. Con	on the natent Inclusion of a	ssignee data is only appropri F a substitute for filing an ass UNTRY)	iate when an assignment has signment.	
Please check the appropriate	assignee category or catego	ries (will not be pri	nted on the pate	nt); 🗅 individual 🗅 e	corporation or other private g	roup entity governmen	
4a. The following fee(s) are e	enclosed:		. Payment of Fee	``	-14		
☐ Issue Fee				ne amount of the fee(s) is encored to card. Form PTO-2038			
☐ Publication Fee ☐ Advance Order - # of C	Copies				hereby authorized by charge the required fee(s), or credit any overpayment, to		
	·		Deposit Accour		<u> </u>	copy of this form).	
Director for Patents is reques	ted to apply the Issue Fee a	nd Publication Fee ((if any) or to re-	apply any previously paid i	ssue fee to the application id	entified above.	
(Authorized Signature)	,	(Date)					
NOTE; The Issue Fee and other than the applicant; a interest as shown by the rec	registered attorney or ag ords of the United States Pa	ent; or the assigne- atent and Trademark	e or other part k Office.	y in			
This collection of informat obtain or retain a benefit happlication. Confidentiality estimated to take 12 minute completed application for case. Any comments on suggestions for reducing the Patent and Trademark C 22313-1450. DO NOT SI SEND TO: Commissioner in the control of t	es to complete, including is not the USPTO. Time with amount of time you nis burden, should be sent Office, U.S. Department END FEES OR COMPLE	Il vary depending useful to the Chief Inform of Commerce, Alerto FORMS TO	nation is require PTO to process 4. This collectic, , and submitting upon the indivite this form an nation Officer, lexandria, Virgo THIS ADDRI	ed to s) an on is g the dual id/or U.S. ginia ESS.			

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/024,349	,349 12/18/2001 Grant Hay		120644-1	4828
23413	7590 10/06/2003		EXAM	NER .
CANTOR COLBURN, LLP 55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002		[MULVANEY, ELIZABETH EVANS	
			ART UNIT	PAPER NUMBER
	•		1774	\nearrow
			DATE MAILED: 10/06/2003	3 0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 67 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 67 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

DATE MAILED: 10/06/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION 1	
10/024,349	12/18/2001	Grant Hay	120644-1	4828
23413	7590 10/06/2003		EXAM	INER
CANTOR COLBURN, LLP			MULVANEY, ELIZABETH EVANS	
55 GRIFFIN RO BLOOMFIELD,			ART UNIT	PAPER NUMBER
BLOOMFIELD,	C1 00002		1774	
			• • • • • • • • • • • • • • • • • • • •	

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			' P)			
	Application No.	Applicant(s)				
Notice of Allowahility	10/024,349	HAY ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Elizabeth E. Mulvaney	1774				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.						
1. X This communication is responsive to Paper No. 6 (Amendr	ment).					
2. X The allowed claim(s) is/are <u>1-50</u> .						
3. The drawings filed on <u>16 April 2002</u> are accepted by the Ex	xaminer.					
4. Acknowledgment is made of a claim for foreign priority und						
a) All b) Some* c) None of the:	(, , , , , , , , , , , , , , , , , , ,					
 Certified copies of the priority documents have 	been received.					
2. Certified copies of the priority documents have	been received in Application No	·				
3. Copies of the certified copies of the priority doc	cuments have been received in this	national stage applicat	ion from the			
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
5. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. § 119(e) (to a provisi	onal application).				
(a) The translation of the foreign language provisional a	pplication has been received.					
6. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. §§ 120 and/or 121.					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
7. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which gives reas			OTICE OF			
 B. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No 	son's Patent Drawing Review(PTO	-948) attached				
, —	perception filed which has he	oon approved by the E	vaminor			
(b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner.						
(c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No						
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.						
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)						
1 Notice of References Cited (PTO-892)	2□ Notice of Informs	al Patent Application (F	PTO-152\			
Notice of References Cited (FTO-032) Notice of Draftperson's Patent Drawing Review (PTO-948)		ary (PTO-413), Paper	•			
∑ Information Disclosure Statements (PTO-1449), Paper No. 7.						
7☐ Examiner's Comment Regarding Requirement for Deposit		ement of Reasons for A	Allowance			
of Biological Material	9 <mark>□</mark> Other .					
		-				

Application/Control Number: 10/024,349

Art Unit: 1774

Allowable Subject Matter

Claims 1-50 are allowed.

The following is an examiner's statement of reasons for allowance: The claims are allowable

because the prior art does not teach or suggest an optical recording medium comprising a substrate,

a reflective layer, a recording layer, and an optical layer formed of a material different from the

substrate where the medium has a radial deviation of les the or equal to about 1.15 degrees at a

radius of 55mm when exposed to humidity over time. The closest prior art, US 5,053,288 discloses

a medium comprising a substrate, a dielectric layer, a recording layer, an organic protective layer, and

an inorganic protective layer where the tilt of the medium is negligible when exposed to humidity

over time.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee.

Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to Elizabeth Evans at (703) 308-

4423. The examiner can normally be reached Monday through Thursday from 9:00 AM to 6:00 PM

and on alternating Fridays from 9:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Cynthia Kelly, can be reached at (703) 308-0449.

Elizabeth Evans Mulvaney

Page 2

Primary Examiner

Group 1700